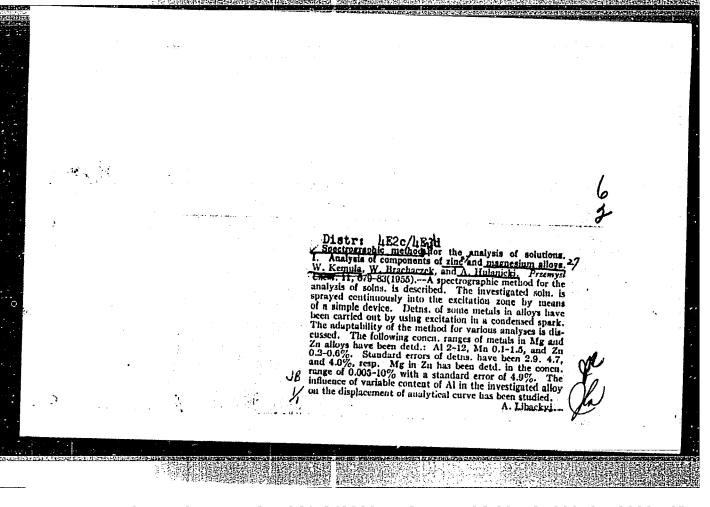


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CIA-RDP86-00513R000721520004-0



THE REPORT OF THE PROPERTY OF

KEMULA, W.

Piftieth anniversary of Professor Wojciech Swietoslawski's scientific activities. p. 151.

ROCZNIKI CHECI, Warszawa, Vol. 29, no. 2/3, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

KEMULA, WIKTOR

Poland/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61804

Author: Kemula, Wiktor; Witwicki, Jerzy

Institution: None

Title: Chromato-polarographic Investigations. V. Indirect Determination of Amino Acids in the Effluent Solution from a Chromatographic Column. VI. On Possible Utilization of Maxima for the Detection of Organic Substances in the Effluent Solution from a Chromatographic Column

Original

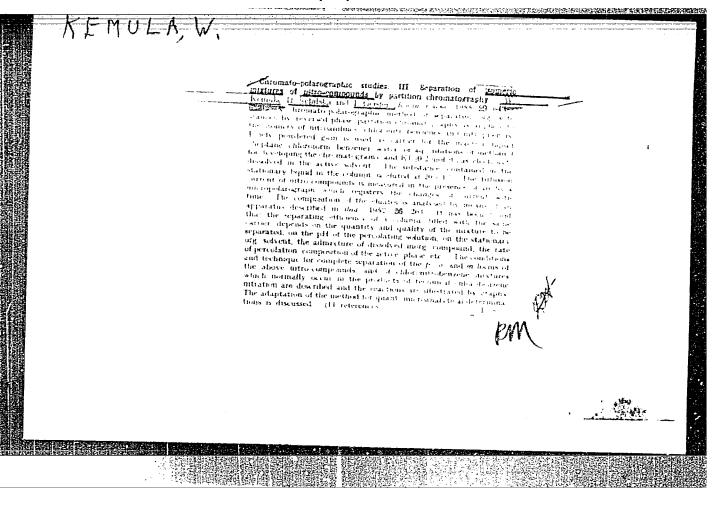
Periodical: Badania chromato-poalrograficzne. V. Posrednie oznaczanie aminokwasow w wycieku z kolumny chromatograficznej. VI. O mozliwosci wyzyskania maksimow do wykrywania substancji organicznych w wycieku z kolumny chromatograficznej, Roczn. chem., 1955, 29, No 4, 1153-1155; 1157-1159; Polish; English resume

Abstract: V. Amino acids are lixiviated from the chromatographic column with 0.001 M solution of $(NH_{\downarrow\downarrow})_2SO_{\downarrow\downarrow}$. The effluent is passed through a

Card 1/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721520004-0



KERULA, A.

Chromatographic and polarographic studies. IV. Application of the catalytic effect to the evaluation of substances in the cluate not reducible on the dropping mercury electrode. Distribution of bracine and strychnine. p. 653.

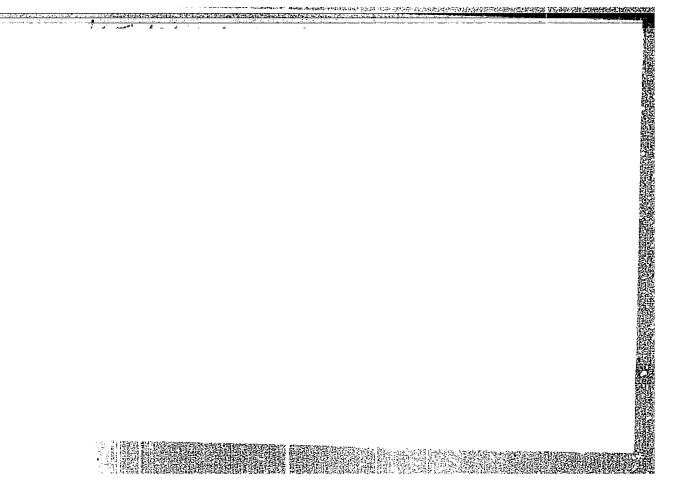
ROCCOURT COMMI, Warszawa, Vol. 29, no. 2/3, 1955.

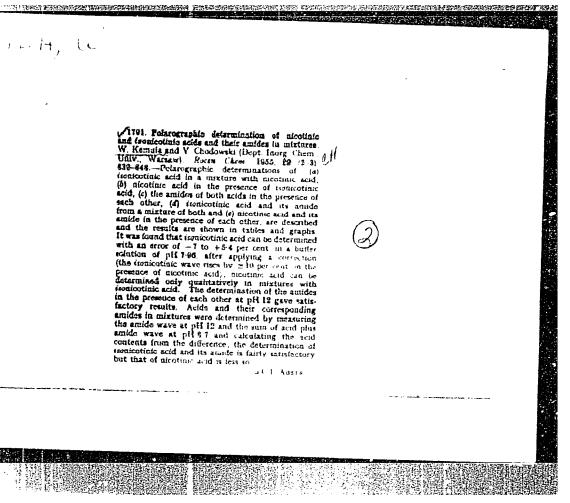
50: Monthly List of Bast European Accessions, (SEAL), IC, Vol. 4, no. 10, Oct. 1955, Uncl.

KERULA, W.

Buchowski, H. Partition equilibriums in dilute solutions. I. Relation between phase composition and partition coefficients. p. 718.
ROCZNIKI CHEMI, Warszawa, Vol. 29, no. 2/3, 1955.

30: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.





KEMULA, W.

Siekierski, S.; Siekierska, K. Polarographic investigation of the kinetics of the formation /In(CN)₆ / ion. p. 966.

ROCZNIKI CHEMI, Warszawa, Vol. 29, no. 2/3, 1955.

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

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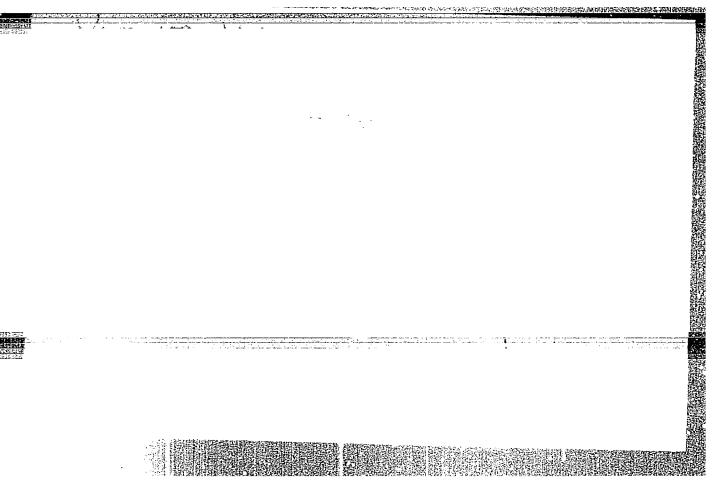
"Chromato-Polarographic Syndies. V. Indirect Determination of Amino Acids in Column Eluate," by W. Kemula and J. Witwickl. Rocaniti Chemii, Vol. 29, No. 4, Warsaw, 1955. (Signed from the Chair of Inorganic Chemistry, University of Warsaw, 7 Jun 55).

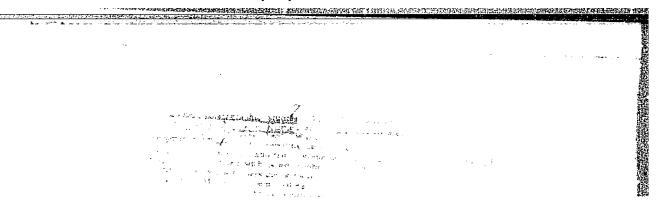
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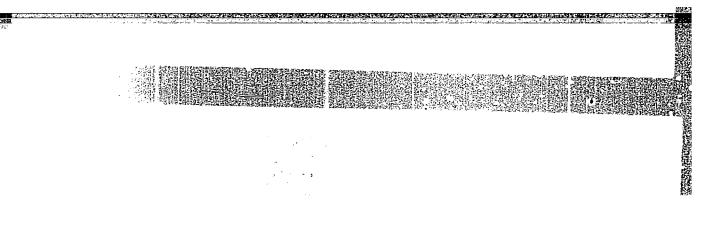
KEMULA, W.

"Chromato-Polarographic Studies. VI. On the Possibility of Utilization of Maxima to the Detection of Organic Substances in a Solution Percolating from a Chromatographic Column," by W. KEMUIA. Rocaniki Chemii, Vol. 29, No 4, Warsaw, 1955. (Signed from the Chair of Inorganic Chemistry, University of Warsaw, 11 Jun 55).

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A.; HELANICKI, A.:

"Spektralna analiza emisyjna" (Spectral emission analysis), by W. Kemula and A. Hulanicki. Reported in New Books (Nowe Ksiązki), No. 12, June 15, 1956.

KEMULLY A

POLAND/Optics - General Problems.

K-1

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7577

Author

Kemulya.

Inst

Title

Sixth International Colloquium on Spectroscopy in

Orig Pub

Problemy, 1956, 12, No 7, 522-523

Abstract

: No abstract.

Card 1/1

- 3 -

APPRØVED FOR RELEASE: 06/13/2000

CIA-RDP\$6, 00513R000721520004-0

Distr: LE2c(j)/LE3d

Polarographic determination of gammexane in the technical product of chlorination of beazene? W. Kemula and B. Weroński (University Warsin, Poland). Framys Chem. 12(35), 51-3(1050) (languish summary).—The distortion of the polarographic wave of the γ-isomer (I) in the tech. product prior to its reduction is climinated by compensating for the residual current, and the one occurring after attaining the diffusion current by adding pure I to the sample to be tested and reading the current height at a potential corresponding to 80-90% of the wave height on a polarogram of pure I. The current height is measured by drawing a line through a part of the polarogram prior to the reduction of I. The correct line drawing on a highly distorted curve is ascertained by taking polarograms for increased I concens, obtained by adding pure I, and caleg, the content of I, which should be the same, in the tech. sample on the basis of the wave heights of these polarograms. Samples content small arms, of the α-hexachtoro- and heptachtoroyclohexane give good results without having to resort to a conen, increase of I. In expts, cited 1% solm, of KI, KCl, and N(CII_I)I contg. 0.005% gelatin were used as the basic electrolyte. Wave heights of the tech. sample

as the basic electrolyte. Wave heights of the tech, sample and of pure leurves were read at the same potential.

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"APPROVED FOR RELEASE: 06/13/2000 CI

CIA-RDP86-00513R000721520004-0

NEMINAM, WIKTOR

POLAND/Physical Chemistry - Electrochemistry

B-12

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3949

Author

: Kemula Wiktor, Weronski Emilian

Title

: New Interpretation of Inhibition of Electrode Processes

at Mercury Drop Electrode in the Presence of Surface-

Active Substances

Orig Pub

: Roczn. chem., 1956, 30, No 1, 347-350

Abstract

: Preliminary communication concerning investigations of the effect of addition of surface-active substances (SAS) C6H6, C6H12, n-C7H14, iso-C8H16 and camphor, on

polarographic reduction of Cu²⁺ions (0.005 N) in 1 N B₃PO₁. Solubility of SAS was increased by addition of varying amounts of ethanol (I). From the shape of the curves which at certain concentration of I are of very irregular nature, the authors draw the conclusion that under these conditions there takes place at the surface

Card 1/2

- 191 -

Wilster Kenels and Zonon Keblik: "The Application of the Stancy "langing" Hercury electron to the Smilloplanormaphic Investigations, "Mocanim Clemit, Vol 30, No 3, Marcus, 1999. Published from the Chair of Inorganic Medistry, Marcus Indvariate, 25, April 1956.

POLAND / Physical Chemistry. Electrochemistry.

B-12

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76831.

Author : Kemula, W. amd Kublik, Z.

Inst : Not given.

Title : Oscillographic Polarographic Potentials of

Electrode Processes.

Orig Pub: Roczniki Chem, 30, No 4, 1259-1273 (1956) (in

Polish with summaries in English and in Russian).

Abstract: Using the oscillographic method of Geyrov for

the recording of the (V,t) characteristics (accuracy $\neq 0.02$ v), the authors have measured the cathodic and anodic polarographic potentials of the following ions: $Tl(\neq)$, $Cu(2\neq)$, $Pb(2\neq)$, $Cd(2\neq)$, $Zn(2\neq)$, $Mn(2\neq)$, $Fe(2\neq)$, $Co(2\neq)$, $Ni(2\neq)$, $Cr(3\neq)$, $Al(3\neq)$, $As(3\neq)$, $Sb(3\neq)$, $Bi(3\neq)$, $Sn(2\neq)$, and $Sn(4\neq)$ against 18 different backgrounds of

Card 1/2

KEMULYA, STAKHORSKHY

POLAND / Analytical Chemistry. Analysis of Organic Substances

Abs Jour APPROVED FOR RELEASE: 06/13/2000, 1959ANRDP86-00513R000721520004-0"

Author

: Komulya, Stakhurskiy

Inst

: Not given Titlo

: Chrometo-Polerographic Research XI. Conditions for the Division of Strychnine and Brucine.

Orig Pub : Roczn. chem., 1956, 30, No 4, 1285-1294.

Abstract : The division of brucine and strychnine by the method of reversed distributive chromotography is described. The concontration of alkaloids in an elution is determined by means of measuring the entalytic waves of hydrogen (CVH). The corrier -- rubber, immobile phase -- benzel (I), mobile phase -- 30% aqueous solution of othernol, saturated with I, containing KJ (II) and borate buffer (III) with pH 8. The presence of 02 in the solution causes on increase in the

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POLAND/Analytical Chemistry. Organic Analysis.

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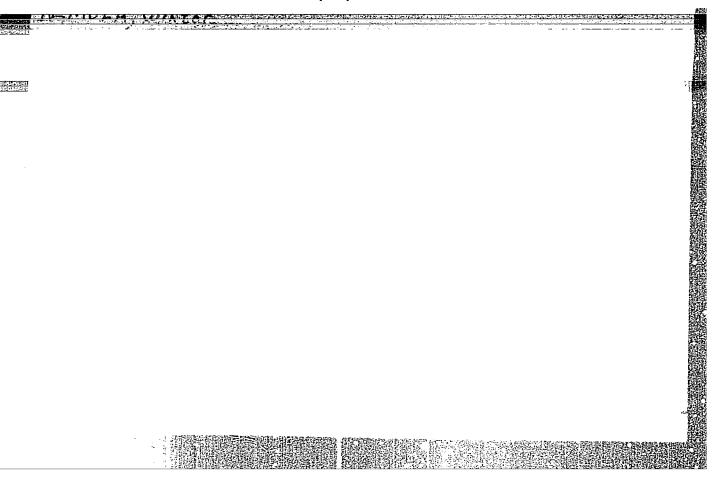
Abs Jour: Ref. Zhur-Khimiya, No 12, 1958, 39426.

found to be 8.2. On the basis of the changes in adsorbance spectrum of DB depending on pH the value for pKDBH+ was found to be 1.82+0.05 . pK' > pK, hence, the first wave probably corresponds to the reduction of the DBH + ion and the second one - of the molecule DB. Prior to the reduction of DBH+ at pH > pK a rapid reaction of DB -> DBH+ must take place. According to the Koutezki's equation (R. Zh. Khim., 1955, 3497), a constant of that conversion was found to be abnormally large (K= 5+0.2 . 10 mole -1 . 1 . sec-1). It proves that the reaction is dependant not only on hydronium ions but on the other proton denors as well which are present in solution.

Card : 3/3

67

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"



KEMULA, W. PRZYBYLOWICZ.

Latent limiting currents on solid electrodes with large surfaces.

P. 211 (Roczniki Chemii) Vol. 31, No. 1, 1957, Warszawa, Poland.

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

KEMILA WENTER

POLAND/Physical Chemistry - Electrochemistry.

B-12

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 24333

Author

: Kemula Wiktor, Przybylowicz Zbigniew

Inst

Title

: Latent Limit Currents at Solid Electrodes of Large Surface

Orig Pub

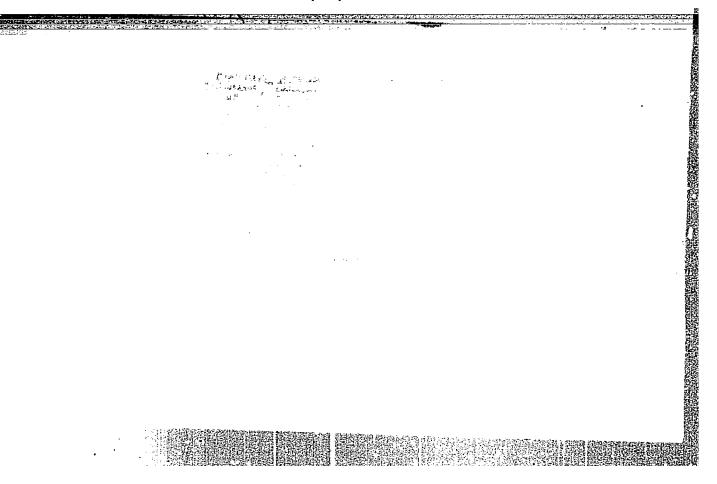
: Rczn. chem., 1957, 31, No 1, 221-227

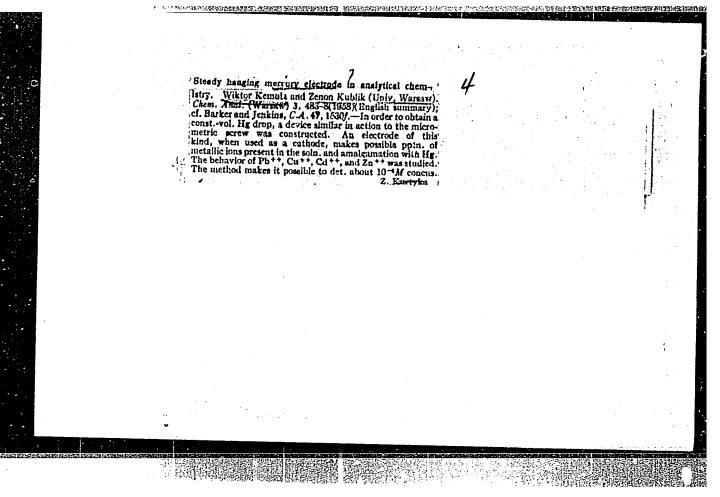
Abstract

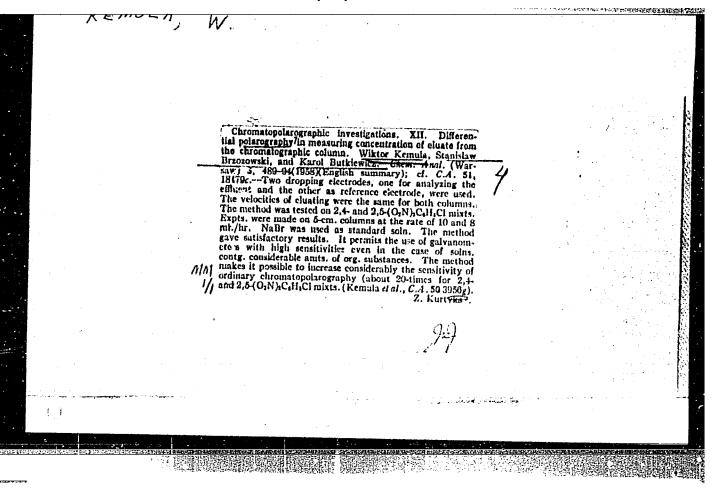
: At Pt- and Cu-electrodes in the shape of plane plates (total surface area 38.5 cm²) with agitation of the solution by an electromagnetic stirrer, reproducible cathodic diffusion currents were obtained. Occurence of latent limit currents (Kemula W., Grabowski Z., Roczn. Chem., 1952, 26, 266) is observed in the case of conjoint presence of oxygen and H tions, or of oxygen and Cu² tions in saturated K₂SO₄ solution.

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"







COUNTRY : Poland

CATEGORY:

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E-2

ABS. JOUR.: AZKhim., No. 1959, No. 86203

AUTHOR : Kemula, W.; Hulanicki, A.; Janowski, A. TMST.

TITLE : Photometric Determination of Traces of Chlorides.

ORIG. PUB. : Chem. analit., 1958, 3, No 3-4, 581-585

ABSTRACT: Determination of traces of Cl is based on weakening of red coloration of solution of the complex of Hg2+ with diphenylcarbazone (I) in the presence of Cl ions, which form a more stable complex with Hg2+. To solution being analyzed, containing 10-60 % Cl, are added 10 ml of 0.02% solution of I (200 mg I dissolved in 100 ml ethanol and 10 ml of resultant solution are diluted with water to 100 ml), 0.025 N NaOH until the yellow solution turns red, 0.05 N HNO3 until red color changes to yellow, and then an additional 1 ml 0.05 N HNO3, followed by 1 ml 2% solution of gum arabic (to stabilize color of solution of complex of Hg2+ with I), and 2 ml 0.001 N solution Hg(NO3)2. The

CARD: 1/2

COUNTRY : Poland E-.

APPROYED FOR RELEASE; 06/13/2000 59, CIA-RDP86-00513R000721520004-0"

AUTHOR : Kemula, W.; Janowski, A.

TITLE : Photometric Investigation of the Reaction of

Hg2+-Ions with Diphenylcarbazone.

ORIG. PUB. : Chem. analit., 1958, 3, No 3-4, 587-591

ABSTRACT: It was ascertained photometrically that in the composition of the colored product formed on interaction of Hg2+ and diphenylcarbazone (I), at pH 3-7, Hg and I are contained at a 1:1 ratio. On the basis of data secured on studying correlation between optic density of solutions of the complex, and concentration of H+ ions, the assumption is made that composition of colored complex in solution corresponds to formula HgHD+, wherein HD- is I anion, which is the product of the lst step of acidic dissociation of I. -- A. Nemodruk.

CARD:

CATEGORY

MEMULA, W.

The development of analytical chemistry in Poland. p. 187.

CHEMIA ANALITYCZNA. (Komsija Analitoyczna Polaskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, no. 3/4 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 7, July 1959 Uncl.

Kemula, W.; Hulanicki, A.

Determination of lithium in ammonium fluoride and in hydrochloric acid. p. 721.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna).

Warszawa, Poland, Vol. 3, no. 5/6, 1958.

Monthly list of East European Accessions (EFAI) LC, Vol, 8, N^{O} . 8, August 1959. Uncla.

Kemula, W., and others.

Determination of lithium, sodium potassium, and calcium in perhydrol by the method of flame spectrography. p. 729.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelna Organizacja Techniczna).

Warszawa, Poland, Vol. 3, no. 5/6, 1958.

Monthly list of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959. Uncla.

KEMUIA, W.; KORNACKI, J.

Polarographic method of determining lead in perhydrol, hydrofluoric acid, and ammonium fluoride. p. 825.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KENULA, W.; KORNACKI, J.

Polarographic determination of sulfates in perhydrol. p. 831.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; RUBEL, S.

Polarographic determination of lead and iron in perhydrol and of copper, lead, and iron in hydrofluoric acid and in ammonium fluoride. p. 837.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East . European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; WOLFRAM, W.

Determination of phosphorus and silicon traces in perhydrol and of silicon in ammonium fluoride. p. 897.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; BRZOZOWSKI, S; JANOWSKI, A.

Colorimetric determination of boron in perhydrol. p. 905.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; BRACHACZEK, W.; HULANICKI, A.

Determination of platinum in perhydrol and ammonium fluoride by means of extraction titration. p. 913.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; BRACHACZEK, W.; HUIANICKI, A.

Absorptiometric determination of cadmium traces in perhydrol and hydrogen fluoride. p. 923.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akamdemii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

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KEMULA, W.; JANOWSKI, A.

Mercurimetric determination of chlorides in perhydrol. p. 933.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczlna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 8, August 1959

UNCL.

KEMULA, W.; BRACHACZEY, W.; KORNACKI, J.

Nephelometric determination of sulfates in perhydrol. p. 939.

CHEMIA ANALITYCZNA. (Komisja Analityczma Polskiej Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa, Poland. Vol. 3, No. 5/6, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959

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W. KEMIJILA

- PCLAND/Optics - Spectroscopy.

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Abs Jour

: Ref Zhur Fizika, No 11, 1959, 26134

Author

: Kemula, W., Grabowska, A.

Inst

Title

: The Reactivity of Aromatic Hydrocarbons in the Excited Triplet State. I. Absorption Spectra and Photochemical Reactions of Benzene and Naphthalene in the Presence of Nitric Oxide.

Orig Pub

: Bull. Acad. polon. sci. Ser. sci. chim. geol. et geogr.,

1958, 6, No 12, 747-753, LIII-LIV

Abstract

: A study was made of the influence of NO on the forbidden absorption $T \leftarrow S_0$ (singlet ground state \rightarrow triplet excited state) of benzene and naphthalene. In accordance with the results of Evans, an increase is observed in the absorption, analogous to that appearing in the presence of O2. This effect is connected with the removal of the forbiddenness of the transition in the field of the

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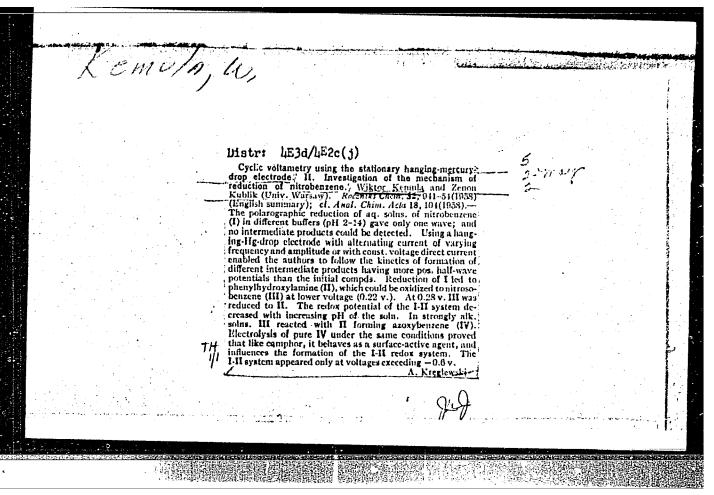
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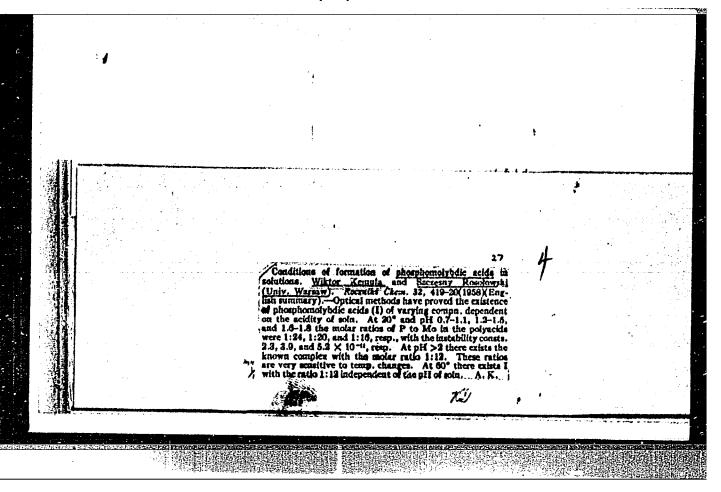
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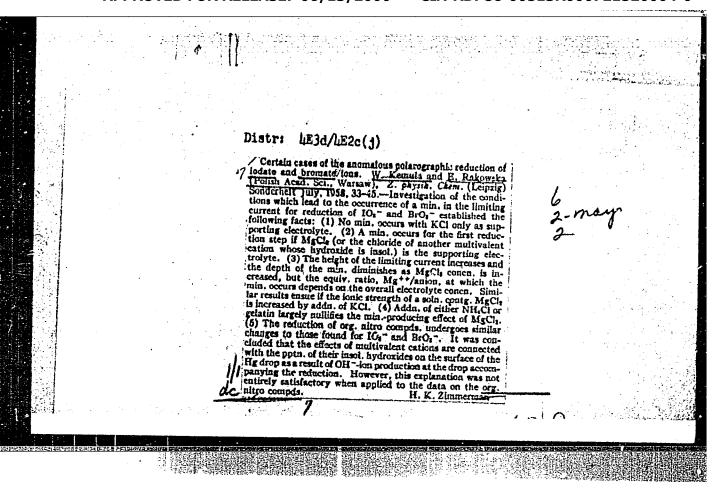
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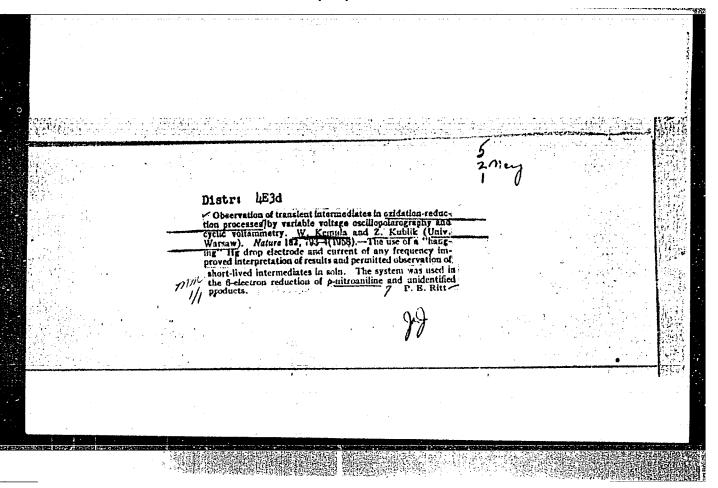
paramagnetic molecule NO. It is observed that irradiation in the region of the band $T \rightarrow S_0$ leads to a chemical reaction in the benzene NO system, wherein the reacting benzene molecule is in the lower excited triplet state. The absorption spectra and the polarographic behavior of the reaction products are compared with the properties of n-benzoquinone-dioxime. It is established that although this product is not identical with n-benzoquinone dioxime, it is a different isonitrose-compound. Similar effects are observed in the case of naphthalene. The found variations of the spectrum are explained as a superposition of weakly-forbidden absorption and a strong reaction product. The observed photochemical reaction is considered as a chemical proof of the biradical triplet state of the aromatic hydrocarbons.

Card 2/2









Wiktor Kemula, Zbigniew Galus, Zenon Kublik, "Application of the Hanging Mercury Urp Electrode to an Investigation of Intermetallic Compounds in Mercury," Nature, Vol. 182, No. 4644, 1 Nov 58, pp 1228-29.

Published from the Inst. of Physical Chemistry, Polish Ac.demy of Sciences. Received 1 Sep 58.

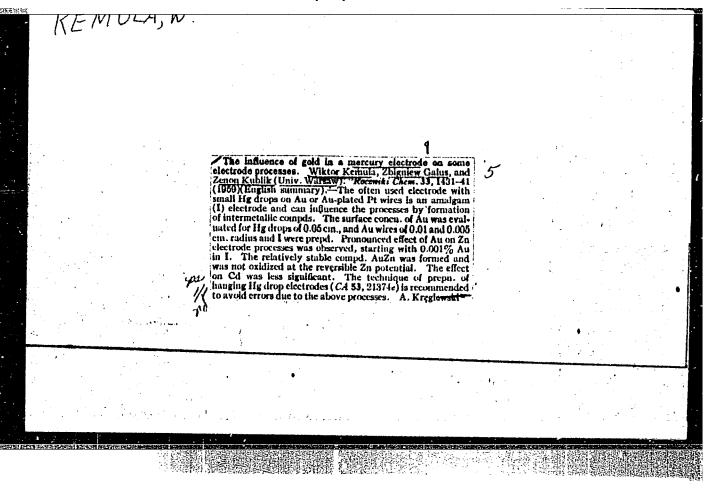
KEMULA, W.; KUBLIK, Z.

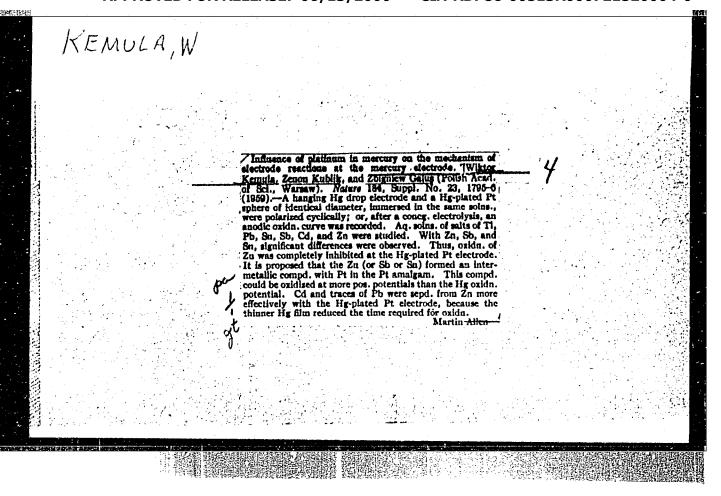
Cyclic voltammetry with application of the hanging mercury drop electrode. I. Investigation of the mechanism of the reduction of p-nitroaniline. Bul Ac Pol Chim 6 no.10:653-659 158. (ERAI 9:6)

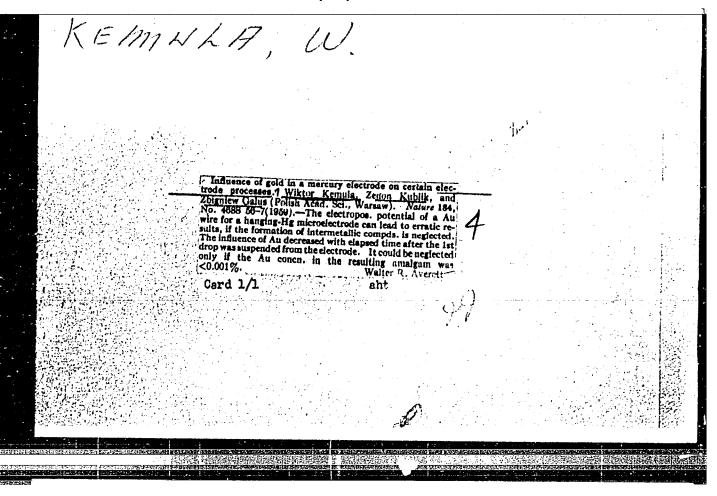
1. Institute of Physical Chemistry, Polish Academy of Sciences.
Communicated by W. Kemula.
(Nitroppiline) (Voltage 1997)

(Witroaniline) (Voltammetry) (Electrodes, Mercury)

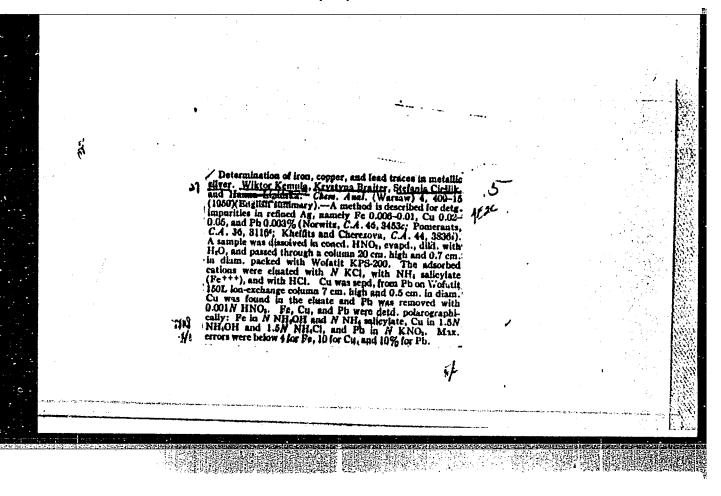
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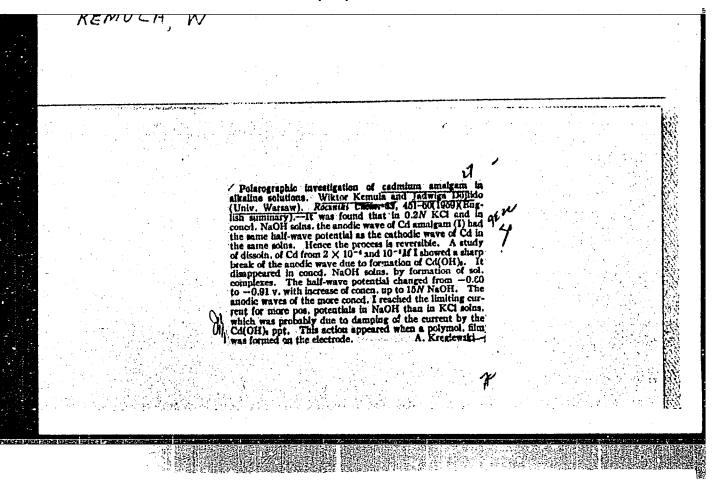


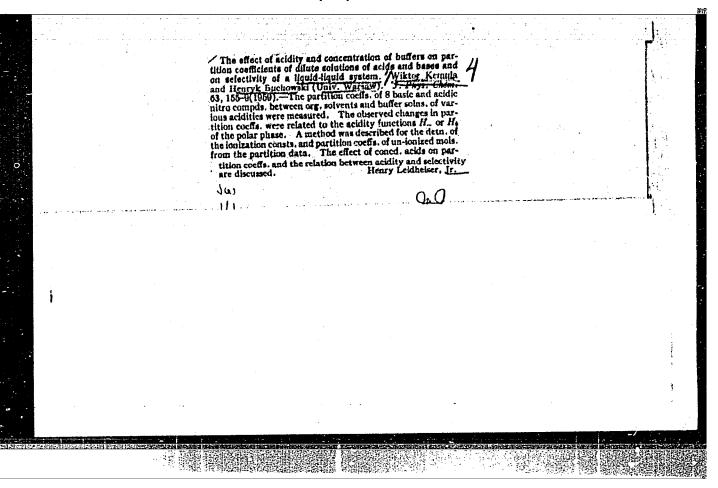




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KEMULA, W.; SYBILSKA, D.

Chromatopolarographic studies. XIII. Analysis of aliphatic nitro-compound mixture. p. 123.

CHIMIA ANALITYCZNA. Warszawa, Poland. No. 8, August 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11 November 1959.

Uncl.

KEMULA, W.; DOJLIDO, J.

Polarographic investigation of cadmium amalgam in alkaline solutions. p. 151

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 9, September 1959. Uncl.

KEMULA, Wiktor; CHODNOWSKI, Jerzy; BALASIEWICZ, Michal; KORNACKI, Jacok; RAKOWSKA, Ewa; VINCENZ, Alina

Polarographic investigation of some derivatives of A-nitroacetophenone, A-nitropropiophenone, and 1-A-nitrophenyl-1,3-propanediol. Rocz chemii 33 no.6:1485-1493 *59. (EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa. Zaklad Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej Pol Polskiej Akademii Nauk, Warszawa. (Polarograph and polarography)

(Polarograph and polarography (Nitroacetophenone) (Nitropropiophenone) (Nitrophenylpropanediol)

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COUNTRY
                     POLAND
                    Physical Chemistry. Electrochemistry
 CATEGORY
ABS. JOUR.
                : RZKhim., No. 1
                                            1960, No. 623
AUTHOR
                : Kemula, W.; Kublik, Z.
: Polish AS
INST.
                : Cyclic Voltammetry with Application of the
TITLE
                    Hanging Mercury Drop Electrode. I. Investigation of the Mechanism of the Reduction of
                Bull. Acad. polon. sci. Ser. sci. chim., geol. et geogr., 1958, 6, No 10, 653-659, LVII

With the aid of the hanging mercury drop electrode (RZhkhim., No 23, 1958, No 77197), by a method of measurement of polarograms and oscillagraphic polarograms (OR) according to Garantia.
ORIG. PUB.
ABSTRACT
                   lographic polarograms (OP) according to Gey-
                    gerovskiy and cyclic voltarmetric curves (CVC),
                    the mechanism of the reduction of p-nitroaniline
                    (I) at pH 2-13 was studied. In acid solutions,
                   *p-nitroaniline
CARD:
                   1/5
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ABS. JOUR. : RZKhim., No. 1 1960, No.623

AUTHOR : INST. : TITLE :

ORIG. PUB. :

contid on the polarograms and CVC there is one wave, or the peak of reduction of I at -0.8 v. At pH>7, a new reversible exidation-reduction system formed by p-phenylenediamine (II) and p-quinonedimine is found at -0.2 v, which is confirmed by the measurements of CVC in pure solutions of II. On OP, in the solution of I, two pairs of deflections at -0.2 and -0.55 v. corresponding to two reversible

-0.55 v, corresponding to two reversible

CARD: 2/5

B-1+7

KEMULA, W.; GALUS, Z.

The application of the hanging drop method to the evaluation of the composition of intermetallic compounds in mercury. Bul Ac Pol chim 7 no.8:553-557 *59. (EEAI 10:4)

1. Department of Inorganic Chemistry, Warsaw University, Presented by W.Kemula.

(Chemical compounds) (Mercury) (Electrolytes) (Electrodes) (Polarograph and polarography)

KEMULA, Wiktor; BRACHACZEK, Wanda; HULANICKI, Adam

Determination of mercury in brine and caustic soda by extractive titration. Chem anal 5 no.2:215-218 '60. (EEAI 10:3)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa. Zaklad Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej Polskiej Akademii Nauk, Warszawa. (Mercury) (Salt) (Sodium hydroxide)

KEMULA, Wiktor; BRAJTER, Krystyna

Exploitation of ion-exchange properties of paper for Cd²⁺and In³⁺ separation. Chem anal 5 no.2:219-224 *60. (EEAI 10:3)

1. Zaklad Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Ion exchange) (Paper) (Cadium) (Indium)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"

KEMULA, Wiktor: BRAJTER, Krystyna; CIESLIK, Stefania; LIPINSKA-KOSTOWICKA, Hanna

Application of ion exchangers to the determination of silver in low-percentage copper ores. Chem anal 5 no.2:225-228 '60. (EEAI 10:3)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Ion exchange) (Silver) (Copper)

AS DESCRIPTION OF REPORTED STREET, SECURITIES AND ASSOCIATION OF THE PROPERTY OF OF THE P

KEMULA, Wiktor; BRAJTER, Krystyna; CIESLIK, Stefania; IJPINSKA-KOSTROWICKA,

Determination of small amounts of iron, manganese, and copper in nickel. Chem anal 5 no.2:229-234 *60. (EEAI 10:3)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Nickel) (Iron) (Manganese) (Copper)

KEMULA, Wiktor; ROSOLOWSKI, Szczesny

Absorptiometric investigations of germanomolybdic acid. Rocz chemii 34 no.3/4:835-842 *60. (EEAI 10:3)

Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
 (Absorptiometer) (Germanium) (Molybdic acids)

KENULA, W.: GALUS, Z.; KUBLIK, Z.

A new voltammetric method of investigation of the formation of intermetallic compounds using the hanging mercury electrode.

Bul Ac Pol chim 6 no.10:661-668 '58. (EEAI 9:6)

1. Institute of Physical Chemistry, Polish Academy of Sciences.

Communicated by W. Kemula.

(Chemical compounds) (Voltammetry)

(Electrodes, Mercury)

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KEMULA, W.; GRABOWSKA, A.

<u>ल्लालका सम्बद्धाः एउटा एक्टला अक्टल्क</u>

The reactivity of aromatic hydrocarbons in the excited triplet state. I. Absorption spectra and photochemical reactions of benzene and naphthalene in the presence of nitric oxide. Bul Ac Pol chim 6 no.12:747-753 '58. (EEAI 9:6)

1. Department of Inorganic Chemistry, Warsaw University.

Presented by W. Kemula.

(Benzene) (Haphthalene) (Nitrogen oxides)

(Aromatic compounds) (Hydrocarbons)

(Absorption spectra)

12-3 POLALG UATECORY 17587 : RZKhime, No. 5 1960, No. ABS. JOUR. AUTHOR THEFT. dia J. ORIG. PUB. : When the development is carried out with a mixture of I + phosphate buffer solution (pH 6.8) with abstract KCl (IX), using a 370 x 6 mm column and an ER of 10 ml/hr, VI, VII, and VIII can be separated. IV, V, and C6 H, NO2 can be separated in a 200 x 6 mm column with a ER of 6 ml/hr, using the system I-50% alcohol (pH 6.8). V, VI, VII, and VIII are separated in a 350 x 6 mm column with a ER of 7 ml/ hr by the successive application of different solvents containing the following mobile phases: CARDI 2/4 0.1 N H₂ SO₄ (X)-0.1 N aqueous II, 0.1 N X-0.1 N II solution in 50% III, 0.1 N X-0.1 N 1I solution in 70% III. When a mixture of mono- and di-NC is ABSTRACT APPROVED FOR RELEASE 106/13/2900 on cellulose acetate which has been treated 13/2900 on, CIA-RDPS6-005-3R000721520004-0" with a solution of IX, C2 H (NO2)2 is ellipsed for VI followed by VII, VIII, and last, a mixture of VI and $C_3 H_6 (NO_2)_2$ (150 x 6 mm column, ER 10 ml/hr). In the quantitative determinations of 0.20 mg VII, 0.36 gm VI, 0.62 mg V, and 0.79 mg IV, the error 130 CAPD: 3/4

COUNTRY : POLAND : Analytical Chemistry. Analysis of Inorganic CATEGORY Substances 1960, No.879 : RZKhim., No. 1 ABS. JOUR. : Kemula, W.; Brajter, K.; Cieslik, S.; Lipinska, H. AUTHOR INST. : Determination of Trace Quantities of Copper, TITLE Iron and Lead in Metallic Silver : Chem. analit. (Polska), 1959, 4, No 1-2, ORIG. PUB. 409-415 : A sample of analyzed silver is dissolved in ABSTRACT conc. IINO3, the solution is evaporated, diluted with water and passed through a column with the cationite Wofatit KPS-200. The sorbed Ag is precipitated in the form of AgCl by washing the column with 1 n. KCl solution, and then Fe is eluated using 0.2-0.4 n. ammonium salicylate as an eluent solution. Cu and Pb. which remain in the column, are extracted CARD: 1/2 E-19

ABS. JOUR. : RZKhim., No. 1 1960, No. 879

AUTHOR IIII.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"

ORIO. FUB. :

ABSTRACT : with 1.2-4.8 n. HOl solution. HOl solution is passed through an anionic column with Wofatit contid 150-L, whereupon Cu passes into the filtrate end Pb is sorbed by the resin; thereafter, Pb is washed off with a 0.001 n. HNO3 solution. After separation of the cations from one another, the solutions are polarographed. The

described method was used for the determination of 0.05% Cu, 0.006% Fe and 0.003% Pb in metal-

lic silver .-- K. Polyanskiy

CARL: 2/2 KEMULA, W.; GALUS, Z.; KUBLIK, Z.

Investigation on the influence of platinum in mercury electrodes on certain electrode processes. Bul Ac Pol chim 7 no.10:723-728 159. (EEAI 9:6)

1. Institute of Physical Chemistry, Polish Academy of Sciences. Department of Inorganic Chemistry, Warsaw University. Communicated by W.Kemula.

(Electrodes) (Amalgams) (Platinum) (Mercury)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"

KEHULA, W.; CALUS, Z.

Application of the hanging mercury drop method to the study of formation of some metal amalgams. Bul Ac Pol chim 7 no.10:729-735 (EEAI 9:6)

LDepartment of Inorganic Chemistry, Warsaw University. Communicated by W.Kemula.

(Amalgams) (Electrodes) (Mercury) (Iron) (Nickel) (Cobalt)

KEMULA, Wiktor: BRAJTER, Krystyna; CIESLIK, Stefania; LIPINSKA, Hanna

A quick chromatographic method of determining copper in metallic silver and silver nitrate. Chem anal 4 no.5/6:855-861 '59. (EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Chromatography) (Copper) (Silver nitrate) (Silver)

KEMULA, W.; ROZOLOWSKI, S.

Absorptiometric studies on the formation of molybdosilicic acids. Bul Ac Pol chim 7 no.5:351-353 *59. (EEAI 9:9)

1. Department of Inorganic Chemistry, Warsaw University. Presented by W.Kemula.

(Silicomolybdic acids) (Absorptiometer)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"

KEMULA, Wiktor; GRABOWSKI, Zbigniew R.; BARTEL, Ewa Teresa

Polarographic kinetic currents due to the reaction of p-dimethylaminobenzaldehyde with proton donors. Rocz chemii 33 no.4/5:1125-1135 '59. (EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu Warszawa i Zaklad
Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej
Polskiej Akademii Nauk, Warszawa
(Polarograph and polarography)
(Dimethylaminobenzaldehyde)
(Protons)

KEMULA, Wiktor: GALUS, Zbigniew; KUBLIK, Zenon

Influence of the presence of gold in a mercury electrode on some electrode processes. Rocz chemii 33 no.6:1431-1441 '59. (EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa i Zaklad Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej Polskiej Akademii Nauk, Warszawa.

(Gold) (Mercury) (Electrodes, Mercury)

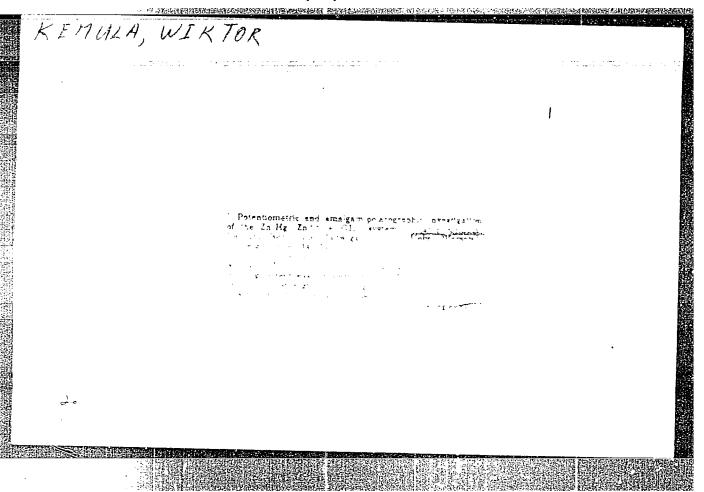
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KEMULA, Wiktor; WERONSKI, Emilian

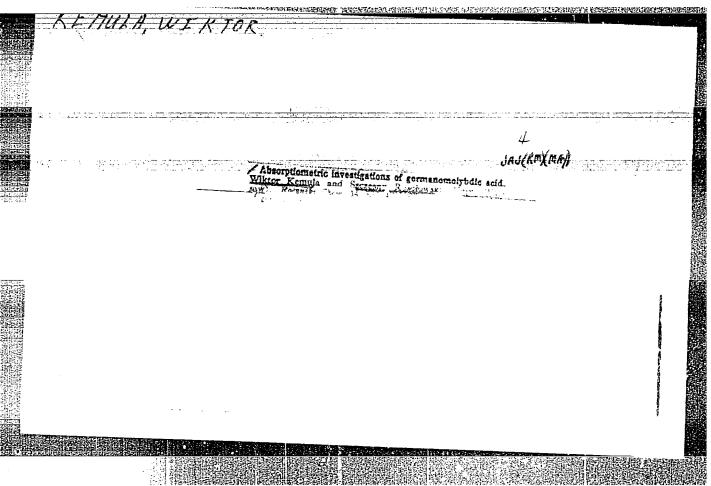
Influence of surface active substances on polarographic waves. II. The comparison of the influence of nonpolar hydrocarbons and polar camphor on the polarographic curves of cupric ions. Rocz chemii 34 no.3/4:1023-1032 *60. (EEAI 10:3)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Polarograph and polarography)
(Surface-active substances) (Camphor)
(Hydrocarbons) (Copper) (Ions)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0



Photometric determination of silicon as --molybdosilic acid Chem anal 5 no.3:419-428 160. (EEAI 10:8)

1. Katedra Chemii Nieorganicznej Uniwersytetu, Warszawa.
(Photometry) (Silicon) (Silicomolybdic acid)

KEMULA, Wiktor; KRZEMINSKA, Alicja

Chromatopolarographic investigations. XIV. Separation and quantitative evaluation of isomers of DDT. Chem anal 5 no.4:611-616 *60. (EEAI 10:9)

1. Department of Inorganic Chemistry, University, Warszawa.

(Chromatography) (Polarograph and polarography)
(Trichlorobischlorophenylethane)

KEMULA, W.; KUBLIK, Z.; TARASZEWSKA, J.

Application of the hanging mercury drop electrode to the investigation of anodic passivation of mercury. Bul chim PAN 8 no.5:269-274 160. (EEAI 10:9/10)

。 1987年(1987年) 1988年 1

1. Institute of Physical Chemistry, Polish Academy of Sciences. Presented by W. Kemula.

(Mercury) (Electrodes, Dropping mercury)

KEMULA, W.; GRABOWSKA, A.

PRODUCTION OF THE PRODUCTION O

Reactivity of aromatic hydrocarbons in the excited triplet state. II. Investigation of the photochemical reaction of benzene with nitric oxide. III. Investigation of the photochemical reaction of benzene with oxygen. Bul chim PAN 8 nc.9:517-529 160.

1. Department of Inorganic Chemistry, University, Warmaw. Presented by W. Kemula.

(Aromatic compounds) (Hydrocarbons) (Photochemistry) (Chemical reactions) (Nitrogen oxides) (Benzene) (Oxygen)

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KEMULA, W.; RAKOWSKA, E.

Application of the hanging mercury drop electrode to an investigation of halogen complexes of chromium (III). Bul chim PAN 9 no.10:

1. Department of Inorganic Chemistry, University, Warsaw and Institute of Physical Chemistry, Polish Academy of Sciences.

(Chromium) (Electrodes, Dropping mercury)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721520004-0"

TO THE PARTY AND THE PROPERTY OF THE PARTY O

KEMULA, W.; RAKOWSKA, E.; KUBLIK, Z.

Application of the hanging mercury-drop electrode to an investigation of redox processes of uranium salts by cyclic voltametry. Coll Cz Chem 25 no.12:3105-3110 D 60. (EEAI 10:9)

1. Institute of Physical Chemistry, Polish Academy of Science and Department of Inorganic Chemistry University Warsaw, Poland.

(Electrodes, Dropping mercury) (Uranium)
(Voltameter)

KEMULA, W.; GRABOWSKI, Z. R.; KALINOWSKI, M. K.

Polarographic oxidation of benzopinacol. Coll Cz Chem 25 no.12: 3306-3312 D '60. (EEAI 10:9)

1. Department of Inorganic Chemistry, University, Warsaw, Poland.

(Polarograph and polarography) (Benzopinacol)

KEMULA, Wiktor; ROSOLOWSKI, Szczesny

Spectrophotometric studies on the formation of molybdosilic acids. Rocz chemii 34 no.1:3-15 '60. (EEAI 10:9)

1. Department of Inorganic Chemistry, University, Warsaw.

(Spectrophotometry) (Silicomolybdic acids)

KEMULA, Wiktor; GALUS, Zbigniew

Application of a hanging mercury-drop electrode to the investigation of properties of complex amalgams. Rocz chemii 34 no.1:251-266 160. (EEAI 10:9)

1, Department of Inorganic Chemistry, University, Warsaw.

(Electrodes, Dropping mercury) (Amalgams)

KEMULA, Wiktor; GRABOWSKA, Anna

Comparative determination of the quantum yields of the photolysis of malachite green leucocyanide and of the photohydrolysis of monochloroacetic acid with an uranyl oxalate actinometer. Rocz chemii 34 no.5:1445-1454 60. (EEAI 10:9)

1. Department of Inorganic Chemistry, University, Warszawa.

(Photochemistry) (Malachite green) (Uranyl oxalates) (Actinometer) (Chloroacetic acids) (Cyanides)

"APPROVED FOR RELEASE: 06/13/2000

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B/081/62/000/004/030/087 B149/B101

AUTHORS:

Kemula, Wiktor, Brajter, Krystyna, Rubel, Stanis Zaw

TITLE:

A method of ferrite analysis. I. The determination of nickel and zinc in mangani-zinc ferrites and nickel-zinc ferrites by polarographic and complexometric methods. II. Complexometric determination of barium in barium ferrites. III. Polarographic determination of manganese and iron

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 4, 1962, 150, abstract 4D145 (Chem. analit." v. 6, no. 3, 1961, 331 - 341, 343 - 346, 346 - 352)

TEXT: I. Complexometric and polarographic methods of determining nickel and zinc in mangani-zinc and nickel-zinc ferrites were worked out. For the complexometric determination of zinc about 200 mg of the ferrite were dissolved in concentrated HCl. In the case of nickel-zinc ferrite F²⁺ was oxidized with concentrated HNO₃, the excess of which was evaporated with added concentrated HCl. The residue was dissolved in 20 ml concentrated Card 1/6

S/081/62/000/004/030/087 E149/B101

A method of ferrite analysis. ...

HCl and the solution passed through an ion-exchange column (diameter 8 mm) packed with anionite levatite MP (layer about 24 cm high, the granules of 0.1 - 0.2 mm size) preliminarily treated with concentrated HCl. Fe, Mn, and Ni were eluted from the column with 120 ml of 1.1 N HCl, then Zn was eluted with 100 ml of 0.01 N HCl. 25 - 50 ml of the eluate were diluted with water up to about 100 ml, to that 2N NaOH was added up to pH~7,2 ml of ammonia buffer solution of pH 10, eriochrome black T (as a mixture with NaCl), and the mixture was titrated with 0.01 M. solution of the complexon III (I), until the color changes from pink to blue. For the determination of Ni, the sample is dissolved in concentrated HCl, Fe²⁺ is oxidized with concentrated HNO.; after evaporation of the excess of the latter, the solution was further evaporated to approximately 1 ml. To this were added 100 ml of water, 30 ml of 25% solution of tartaric acid, and concentrated NH OH to pH 7; then the solution was slightly acidified with acetic acid, warmed to 70°C; 20 ml 1% ethanolic solution of dimethylglyoxime and concentrated NH40H with slightly alkaline reaction were added and the solution was kept for 30 min at 70°C. The precipitate of Ni-dimethylglyoximate was filtered, rinsed with water and dissolved in a minimum volume of 2 N Card 2/6

S/081/62/000/004/030/087 B149/B101

A method of ferrite analysis. ...

HCl. To this solution 50 ml of 0.01 M solution of I was added, neutralized with 2 N solution of NaOH to pH 7; then a mixture of eriochrome black T and NaCl was added; 2 ml ammoniacal buffer solution with pH 10 was then added and the excess of I titrated with 0.01 M solution of ZnSOA. For polarographic determination of Zn in manganese-zinc ferrites about 200 mm of the sample were dissolved in 5 ml concentrated HCl and diluted with water to 250 ml. To 3 ml of this solution were added 2.5 ml 1 M NH, SCN, 1 ml of 1 M solution of sodium tartrate, 0.25 ml 0.5% solution of Tylose; this was diluted with water to 25 ml and after passing of H2, polarographed from -0.75 to 1.25 v. For polarographic determination of Ni and In in nickel-zinc ferrites, about 200 mg of the sample were dissolved in concentrated HCl, diluted with water to 200 ml, To 3 ml of this solution were added 2.5 ml 1 M KSCN, 1 ml 1 M. solution of sodium tartrate, 10 ml water, pH was adjusted to 4 - 5, 0.25 ml 0.5% of Tylose added; the mixture was diluted to 25 ml with water and, after passing of H2, polarographed from -0.45 to 1.25 v. The error in the determination of Zn and Ni by the complexometric method is about 1.5%, the time required is about 2.5 hours. Card 3/6

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S/081/62/000/004/030/087 B149/B101

A method of ferrite analysis. ...

The error in the polarographic method is about 2.5% and the time required about 1.7 hours. II. A method for determination of free Ba in Ba-ferrites was proposed. Barium is precipitated in the form of BaSO, in the presence of the I which prevents the adsorption of Fe3+ by the precipitate BaSOA. The precipitate is dissolved in the alkaline solution of I and excess is titrated with a solution of $MgSO_4$. For the analysis 0.2 g of the sample is dissolved in concentrated HCl, the solution evaporated to dryness, 250ml 0.01 M I added and BaSO4 contained in Ba ferrite filtered off. The precipitate is rinsed with ~50 ml 0.01 M I. The filtrate is heated to boiling and 5 ml 1 N H2SO4 is then added (to precipitate the Ba, which enters the ferrite in elemental form) and the mixture is left for 30 min in a boiling water bath. The precipitated BaSO4 is filtered, rinsed with a hot The filter paper with the solution of 0.01 M I and finally with water. precipitate is placed in a beaker, 50 ml 0.01 M I are added, followed by 3 ml of concentrated NHAOH; the beaker is covered with a watch glass and Card 4/5

S/081/62/000/004/030/087 B149/B101

A method of ferrite analysis. ...

heated until the precipitate is completely dissolved. After this the watch glass is removed and boiling continued until the smell of ammonia has completely ceased. The liquid is diluted with water to 150 ml, 10 ml of ammoniacal buffer solution with pH 10 and eriochrome black T are added and the excess of I, is titrated with 0.01 M MgSO₄, until the blue color

changes to violet. The mean error of the determination of Ba is ~1.5%; the time of the experiment is about 3 hours. III. For the polarographic determination of Mn and Fe, 0.2 g of the sample is dissolved in 5 ml concentrated HCl with heating, 0.5 ml of a saturated solution of KClO₃ is

added, and the mixture is heated until the smell of Cl2 has ceased; then

water is added to 250 ml. To 3 ml of the obtained solution 5 ml of 0.5 M triethanolamine are added and the mixture is shaken for 3 min. Then 8 ml of 1 N KOH are added, resulting in a pH of about 13, then the liquid is shaken for 30 sec; after diluting with water to 25 ml, it is placed in the polarographic cell. It is polarographed after passing H2 for 15 min (the addition of a small amount of Na₂SO₃ may be substituted for the passing of H₂). $E_{1/2}$ for Fe and Mn is -50 and -1.10 v respectively, referred to a saturated calomel electrode. The experimental error is about 2 - 2.5%. Card $\frac{5}{6}$

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A method of ferrite	analysis	S/081/62/000/004/030/0 B149/B101	67	
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KEMULA, Wiktor; HULANICKI, Adam

Potentiometric titration of silver in used photographic fixing baths with sodium diethyldithiocarbamats. Chem anal 6 no.5:705-710 '61.

1. Department of Inorganic Chemistry, University, Warsaw.



KEMULA, Wiktor; PASCIAK, Jan; SYBILSKA, Danuta.

Chromatopolarographic studies. XVI. Analysis of diethylbenzene dehydrogenation products. Chem anal 6 no.5:807-812 '61.

1. Department of Inorganic Chemistry, University, Warsaw and Research Laboratory, Chemical Works, Oswiecim.

KEMULA, W.; HULANICKI, A.

THE PROPERTY OF THE PROPERTY O

Solubility products of metal dithiocarbamates. Studies of copper, lead, and zinc diethyldithiocarbamates by means of the competition method. Bul chim PAN 9 no.7:477-482 '61.

1. Department of Inorganic Chemistry, University, Warsaw and Institute of Physical Chemistry, Polish Academy of Sciences. Presented by W. Kemula.